Performance Data Sheet

AJEK513ZXA

General Information

Model	AJEK513ZXA	**Refrigerant**	R-404A
Test Condition	Tecumseh Europe	**Performance Test Voltage**	100V ~ 50HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	CSR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-23.3	Watts (Capacity)	1230	927	676	475
	Watts (Power)	726	688	654	617
	Amps	9.62	9.34	9.06	8.79
-20	Watts (Capacity)	1510	1170	880	639
	Watts (Power)	801	770	753	742
	Amps	9.94	9.87	9.82	9.77
-15	Watts (Capacity)	2000	1590	1240	927
	Watts (Power)	908	887	894	921
	Amps	10.5	10.7	11.0	11.2
-10	Watts (Capacity)	2590	2100	1660	1270
	Watts (Power)	1010	995	1020	1090
	Amps	11.0	11.6	12.1	12.7
-6.7	Watts (Capacity)	3030	2480	1980	1530
	Watts (Power)	1070	1060	1100	1190
	Amps	11.4	12.1	12.9	13.6
-5	Watts (Capacity)	3270	2690	2160	1680
	Watts (Power)	1100	1090	1140	1240
	Amps	11.6	12.4	13.3	14.1
0	Watts (Capacity)	4060	3380	2750	2160
	Watts (Power)	1180	1180	1250	1390
	Amps	12.3	13.3	14.4	15.4

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	6.443290E+03	1.696850E+03	9.369604E+00	
C2	2.349630E+02	2.973260E+01	1.357653E-03	
C3	-8.823550E+01	-3.184260E+01	8.989062E-02	

C4	3.068210E+00	-7.831490E-02	2.499693E-03	
C5	-2.155770E+00	-8.872470E-01	4.520646E-03	
C6	3.116320E-01	5.342220E-01	3.172780E-04	
C7	1.277980E-02	3.252860E-06	0.000000E+00	
C8	-2.320450E-02	-2.732940E-03	-5.178320E-05	
C9	-3.432890E-04	1.412810E-02	-3.600000E-07	
C10	-5.208430E-04	-1.497180E-03	-2.150000E-06	

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature

Performance Data Sheet

AJEK513ZXA

General Information

Model	AJEK513ZXA	**Refrigerant**	R-404A
Test Condition	Tecumseh Europe	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	-6.7°C (20°F) SUPERHEAT	**Motor Type**	CSR

Performance Information

Evap Temp (°C)		Condensing Temperature (°C)			
		30	40	50	60
-23.3	Watts (Capacity)	1450	1100	809	578
	Watts (Power)	887	836	791	758
	Amps	9.43	9.14	8.87	8.60
-20	Watts (Capacity)	1780	1380	1050	771
	Watts (Power)	956	912	882	870
	Amps	9.54	9.47	9.41	9.35
-15	Watts (Capacity)	2360	1880	1470	1110
	Watts (Power)	1060	1030	1020	1040
	Amps	9.85	10.1	10.3	10.6
-10	Watts (Capacity)	3050	2480	1960	1510
	Watts (Power)	1150	1140	1160	1220
	Amps	10.3	10.8	11.3	11.9
-6.7	Watts (Capacity)	3570	2920	2340	1820
	Watts (Power)	1210	1210	1250	1340
	Amps	10.7	11.4	12.1	12.8
-5	Watts (Capacity)	3860	3170	2550	1990
	Watts (Power)	1240	1250	1300	1400
	Amps	10.9	11.7	12.5	13.2
0	Watts (Capacity)	4790	3980	3240	2550
	Watts (Power)	1320	1350	1440	1590
	Amps	11.7	12.7	13.7	14.7

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.655570E+03	1.530210E+03	8.868804E+00	
C2	2.786260E+02	1.362830E+01	3.165100E-02	
C3	-1.074710E+02	-1.375100E+01	8.730794E-02	

C4	3.624230E+00	-3.115990E-01	4.311071E-03	
C5	-2.610370E+00	-2.499450E-01	4.596351E-03	
C6	4.273390E-01	2.047050E-01	2.923510E-04	
C7	1.501510E-02	2.689240E-04	0.000000E+00	
C8	-2.767610E-02	6.662280E-03	-4.107770E-05	
C9	9.780000E-05	1.080090E-02	-3.600000E-07	
C10	-8.911840E-04	6.736470E-04	-1.980000E-06	

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature